

NOVEMBER/DECEMBER 2025

**23UDA41 — RELATIONAL DATABASE
MANAGEMENT SYSTEM**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define: Database System.
2. List out any two characteristics of DBMS.
3. What do you mean by Relation?
4. What is Primary Key?
5. Expand: SQL.
6. What is the difference between DDL and DML?
7. Expand: PL/SQL.
8. What is cursor?
9. What is an Exception?
10. Define: Trigger.



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the advantages of DBMS over traditional file systems.

Or

- (b) Explain about three-level architecture of DBMS.

12. (a) Delineate different types of keys with examples.

Or

- (b) Write a note a Unary operation in relational algebra.

13. (a) Construct an SQL commands for Create, Alter, Drop, and Truncate.

Or

- (b) Explain the concept of constraints in SQL with suitable examples.

14. (a) Justify the structure of a PL/SQL block with example.

Or

- (b) Differentiate between Procedures and Functions.

15. (a) Write a note on Triggers in PL/SQL.

Or

- (b) Explain the use of cursors in PL/SQL with examples.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Briefly explain the database models with examples.

17. Explain normalization with functional dependency, 1NF, 2NF, 3NF, BCNF and 4NF.

18. Detail about the use of Subqueries (scalar, multiple rows, correlated) with examples.

19. Elaborate the features of PL/SQL and its advantages over SQL.

20. Demonstrate predefined and user-defined exceptions with syntax and examples.

